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DATE: Monday, July 19, 2004

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|---------------------------------------|-----------------|-------------------------------------|------------------|
| <i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i> | | | |
| <input type="checkbox"/> | L10 | l7 and l9 | 5 |
| <input type="checkbox"/> | L9 | \$dextrin or silica\$ or kieselguhr | 378491 |
| <input type="checkbox"/> | L8 | l6 and supercritical\$ | 9 |
| <input type="checkbox"/> | L7 | l6 and (carrier or support) | 9 |
| <input type="checkbox"/> | L6 | l3 and ethanol\$ | 15 |
| <input type="checkbox"/> | L5 | l3 and l4 | 0 |
| <input type="checkbox"/> | L4 | ethanol resin | 40 |
| <input type="checkbox"/> | L3 | l2 and (extract\$ or isolat\$) | 22 |
| <input type="checkbox"/> | L2 | l1 and hops | 22 |
| <input type="checkbox"/> | L1 | xanthohumol | 26 |

END OF SEARCH HISTORY

=> d his

(FILE 'HOME' ENTERED AT 13:12:33 ON 19 JUL 2004)

FILE 'REGISTRY' ENTERED AT 13:14:10 ON 19 JUL 2004

L1 1 S XANTHOHUMOL/CN

FILE 'CAPLUS' ENTERED AT 13:14:28 ON 19 JUL 2004

L2 86 S L1

L3 84 S L2 AND XANTHOHUMOL

L4 40 S L3 AND ?HOPS?

L5 247029 S ETHANOL?

L6 6673 S L5 AND RESIN

L7 2 S L4 AND L6

L8 6 S L4 AND EXTRACT?

L9 11 S L4 AND ISOLAT?

L10 1 S L9 AND L5

L11 20068 S SUPERCRITICAL?

L12 10376 S L11 AND (CARBON DIOXIDE OR CO2)

L13 0 S L9 AND L12

L14 0 S L4 AND L12

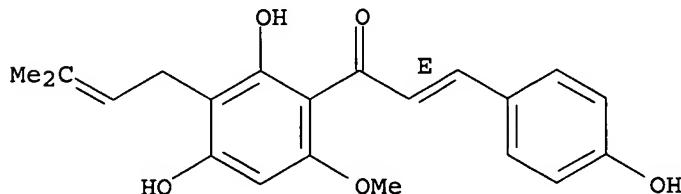
L15 1 S L3 AND L12

s xanthohumol/cn
L1 1 XANTHOHUMOL/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 6754-58-1 REGISTRY
CN 2-Propen-1-one, 1-[2,4-dihydroxy-6-methoxy-3-(3-methyl-2-butenyl)phenyl]-3-(4-hydroxyphenyl)-, (2E)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propen-1-one, 1-[2,4-dihydroxy-6-methoxy-3-(3-methyl-2-butenyl)phenyl]-3-(4-hydroxyphenyl)-, (E)-
CN Xanthohumol (6CI, 7CI)
FS STEREOSEARCH
MF C21 H22 O5
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM,
DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, NAPRALERT,
PHAR, PROMT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Dissertation; Journal; Patent
RL.P Roles from patents: BIOL (Biological study); OCCU (Occurrence); PREP
(Preparation); PROC (Process); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP
(Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in
record)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
study); OCCU (Occurrence)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

86 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
86 REFERENCES IN FILE CAPLUS (1907 TO DATE)
13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

Connecting via Winsock to STN

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 4 May 12 Polymer links for the POLYLINK command completed in REGISTRY
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NEWS 6 May 27 CAplus super roles and document types searchable in REGISTRY
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NEWS 9 Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
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NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004

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*HCHEMLIST - Regulated Chemicals Listing with hour-based pricing

* The files listed above are temporarily unavailable.

FILE 'HOME' ENTERED AT 14:20:41 ON 19 JUL 2004

=> file caplus
COST IN U.S. DOLLARS

| | |
|-----------------------------|--------------------------|
| SINCE FILE ENTRY 0.21 | TOTAL SESSION 0.21 |
|-----------------------------|--------------------------|

FILE 'CAPLUS' ENTERED AT 14:20:57 ON 19 JUL 2004

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FILE COVERS 1907 - 19 Jul 2004 VOL 141 ISS 4
FILE LAST UPDATED: 18 Jul 2004 (20040718/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> e ep0320813/pn
E1      1    EP320806/PN
E2      1    EP320807/PN
E3      1 --> EP320813/PN
E4      1    EP320817/PN
E5      1    EP320819/PN
E6      1    EP320820/PN
E7      1    EP320821/PN
E8      1    EP320824/PN
E9      1    EP320831/PN
E10     1    EP320832/PN
E11     2    EP320833/PN
E12     1    EP320836/PN
```

```
=> d e3 ibib
NO L# DEFINED
```

```
=> s e3
L1      1 EP320813/PN
```

```
=> d l1 ibib
```

```
L1  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1990:9378  CAPLUS
DOCUMENT NUMBER: 112:9378
TITLE: Process for the continuous extraction of high-boiling
       or nonboiling but melting organic mixtures
INVENTOR(S): Haeffner, Eckhard; Ben-Nasr, Hedi; Knuth, Bernd;
              Jasper, Hubert; Reimann, Klaus
PATENT ASSIGNEE(S): Krupp, Fried., G.m.b.H., Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
```

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|--------------|
| EP 320813 | A1 | 19890621 | EP 1988-120590 | 19881209 <-- |
| EP 320813 | B1 | 19920909 | | |

R: BE, DE, ES, FR, GB, IT, LU, NL, SE

| | | | | |
|------------------------|----|----------|-----------------|----------|
| DE 3743058 | A1 | 19890629 | DE 1987-3743058 | 19871218 |
| ES 2034133 | T3 | 19930401 | ES 1988-120590 | 19881209 |
| US 5011594 | A | 19910430 | US 1988-285387 | 19881216 |
| JP 01203496 | A2 | 19890816 | JP 1988-318731 | 19881219 |
| PRIORITY APPLN. INFO.: | | | DE 1987-3743058 | 19871218 |

=> e ep0057435

| | | |
|-----|----|------------------|
| E1 | 3 | EP00276/BI |
| E2 | 1 | EP0055/BI |
| E3 | 0 | --> EP0057435/BI |
| E4 | 1 | EP007/BI |
| E5 | 12 | EP01/BI |
| E6 | 1 | EP012/BI |
| E7 | 1 | EP012M/BI |
| E8 | 1 | EP0199/BI |
| E9 | 1 | EP01NS/BI |
| E10 | 5 | EP01P/BI |
| E11 | 3 | EP02/BI |
| E12 | 23 | EP02P/BI |

=> s e3

| | | |
|----|---|--------------|
| L2 | 0 | EP0057435/BI |
|----|---|--------------|

=> e ep0057435/pn

| | | |
|-----|---|----------------|
| E1 | 1 | EP574347/PN |
| E2 | 1 | EP574348/PN |
| E3 | 1 | --> EP57435/PN |
| E4 | 1 | EP574351/PN |
| E5 | 1 | EP574352/PN |
| E6 | 1 | EP574354/PN |
| E7 | 1 | EP574355/PN |
| E8 | 1 | EP574356/PN |
| E9 | 1 | EP574369/PN |
| E10 | 1 | EP574370/PN |
| E11 | 1 | EP574381/PN |
| E12 | 1 | EP574383/PN |

=> s e3

| | | |
|----|---|------------|
| L3 | 1 | EP57435/PN |
|----|---|------------|

=> d ibib

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1982:543143 CAPLUS
 DOCUMENT NUMBER: 97:143143
 TITLE: Extraction of bitter substances and tannins from hops
 INVENTOR(S): Von Horst, Louis; Hartl, Alfons
 PATENT ASSIGNEE(S): Horst und Klotz Hopfenveredelung G.m.b.H., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 19 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|--------------|
| DE 3103617 | A1 | 19820805 | DE 1981-3103617 | 19810203 |
| US 4490405 | A | 19841225 | US 1982-340988 | 19820120 |
| EP 57435 | A2 | 19820811 | EP 1982-100601 | 19820128 <-- |
| EP 57435 | A3 | 19830309 | | |
| EP 57435 | B1 | 19850529 | | |

R: AT, BE, CH, DE, FR, GB, IT, LU, NL
AT 13556 E 19850615 AT 1982-100601 19820128
PRIORITY APPLN. INFO.: DE 1981-3103617 19810203
EP 1982-100601 19820128